



**S-3B AIRCRAFT OPERATIONAL FLIGHT TRAINER (OFT), DEVICE 2F92B (F)**

**TRAINING CATEGORY:**

AIR (ASW)

**ORIGINATING AGENCY:**

DCNO/AIR

**SECURITY CLASSIFICATION:**

Device 2F92B (F) is secret.

**PURPOSE OF DEVICE:**

To provide realistic training to S-3B flight crews.

**INTENDED USE:**

To provide comprehensive initial and refresher training for S-3B operational crews (Pilot, Copilot) to develop increased proficiency in performing the assigned mission of the S-3B aircraft.

**FUNCTIONAL DESCRIPTION:**

The Device 2F92B OFT equipment, including controls, indicators and other instrumentation visible and accessible to the Pilot, Copilot, TACCO, and SENSO, has the same appearance and feel as in the operational aircraft. Realism is further enhanced by providing simulation of environmental effects such as motion, engine sounds, tire screech sound, atmosphere of the earth, geomagnetic field, and sea and water conditions. The Operational Flight Trainer (OFT) and the Tactical Trainer may be coupled to run a coordinated training mission. When coupled the trainers are in the Integrated mode. When they are running separately the trainers are in the Independent mode. Tactics Team mode allows for training students in a coordinated mission, utilizing its TACCO, SENSO, Pilot, and Copilot stations. Position Trainer mode allows for training individual crew members in isolation with the instructor. Simulation software assumes the role of remaining crew members.

## DIRECTORY OF NAVAL TRAINING DEVICES

### PHYSICAL INFORMATION:

Unit	Length (In.)	Depth (In.)	Height (In.)	Weight (Lb.)
9	94	31	71	1446
17	64	32	82	1030
22	22	30	40	100
27	22	30	61	350
42	28	26	82	*
43,44	42.2	25.5	74.4	*
45,46	42.2	25.5	74.4	*
49	24	30	76	300
53	32	32	82	400
56	32	32	82	300
60	24	31	78	400
64	26	27	36	100

\* = Unit on Motion Platform

Flight Computer	Unit 9
Flight/Tactics Coupling	Unit 17
60/400 Hz Converter	Unit 22
Flight Operator Console	Unit 27
Cockpit	Unit 41
Flight Instructor Console	Unit 42
Digital I/O	Unit 43
Analog I/O	Unit 44
Interconnect Cabinet	Unit 45
Flight/Navigation Equipment	Unit 46
Motion Cabinet	Unit 49
Power	Unit 53
Equipment Cabinet	Unit 56
Visual Computer	Unit 60
Hard Copy Unit, Flight	Unit 64

### EQUIPMENT REQUIRED (NOT SUPPLIED):

Security Cabinet to store classified material.

### POWER REQUIREMENTS:

Hz	VAC
Input 60 ±5%	120/208 ±10% 3-ph, 4-wire
Input 60 ±5%	277/480 ±10% 3-ph, 4-wire
Max Peak Power: 55.47 kVA, 154 A/phase	
Input 400 ±5%	115/200 ±10% 3-ph, 4-wire
Max Peak Power: 16.80 kVA, 60 A/phase	
Max Start Power: Within limits above	

### INSTALLATION REQUIREMENTS:

Floor Loading: Motion Platform Total Weight 31180 lbs.  
Units in Tactics Room 4356 lbs

Temperature: 65 to 72 Degrees F

Humidity: 50% to 60% Noncondensing

#### Air Conditioning Required:

Cockpit Three (3) Tons  
High Bay Area One (1) Ton  
Tactics Room 25.93 Tons

#### Acoustical Environment:

Trainer 65 dB (A)  
Computer 75 dB (A)

### PUBLICATIONS FURNISHED:

1. Operation and Maintenance Instructions  
NTSC P-6267 (U)
2. Planned Maintenance System,  
NTSC P-6268 (U)
3. Commercial Computer Documentation Set  
NTSC P-5962 (U)

### PERSONNEL:

Maintenance Men: Three (3) ET or Equivalent  
Instructors: One (1) Instructor Pilot  
Operators: Instructor-Operated  
Trainees: One (1) Pilot,  
One (1) Copilot

### CONTRACT IDENTIFICATION:

Manufactured by Link Tactical Simulation  
Division of CAE-Link Corp., Silver Spring, MD,  
under NAVAIRSYSCOM Contract No. N00019-87-  
C-0148.

### LOCAL STOCK NUMBER:

6930-LL-C00-7053